

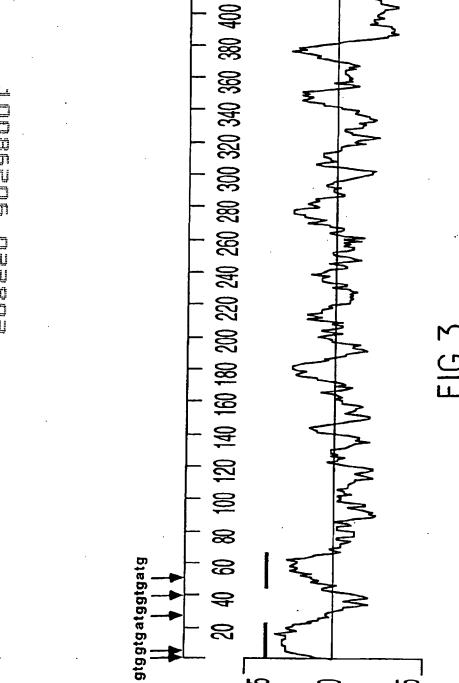
F1G. 1B

				P			Y Y															TGG G	55
							GC6 A														_	CCG R	115
CG			ITG'	_			CCA	CC	rgc	CGC	GCG	GTI	TC	GC	GC'	TGA	\TG	GT	GTO	CT	TT	GGT	175
GC							ATC	TG	AAC	GG1	(AA)	CCG	AAC	CAG	CTG	TGC	CG	TA	GTO	TG	TG	ACT	235
TGTCCGATTTTGGCCTTGCCGCGCTAGGGCGACGTTCACCGGATTTGTAGGATTTTCCTT															CTT	295							
M	Ţ	٧	F															GC	AC7			GTC V	355 20
S•	nX3	3 -	•					•	•														
G €	_						GGC L																415 40
AC T			GGT(S				CGG																475 60
											_												
CT <u>L</u>							ACA 1																535 <i>80</i>
																							595
E	L	G	L	٧	R	. D) F	. (}	L	D	D	Q	Ą	W	R	l	A	A	R		Q	100
							TCG		-										-				655 120
																							715 140
GC	CGT	'GG1	rgt:	rcg	TGC	ACG	ACC	AGT	rcg	GAT	'TA'	TGC	GCG	GAI	rggi	AGG	CG	GC'	TAG	GC	GT	GAC	775
																							160
																							835
.	٧	A		Y	S	<u> </u>	H		<u>. </u>	<u>K</u>	T	Y	<u> </u>	G	A	Ľ.	1	ж	L	L	,	Α.	1,80

GAGGCGCTGCTGGCGTCGGCCGACGACTCCGAAACCGTTCGGCGGTTCGCCGAGAAGGTG 895 E A L L A S A D D S E T V R R F A E K V CTCATTGAGGCCAACCGGCTCGGTGACATGGTCGCCGAGTTGATCGAGCTATCCCGGCTA 955 LIEANRLGDMVAEL·IELSRL CAGGGCGCCGAGCGGCTACCCAATATGACCGACGTCGACGTCGATACGATTGTGTCGGAA 1015 Q G A E R L P N M T D V D V D T I V S E 240 GCGATTTCACGCCATAAGGTGGCGGCCGACAACGCCGACATCGAAGTCCGCACCGACGCG 1075 AISRHKVAADNADIEVRTDA 260 CCCAGCAATCTGCGGGTGCTGGGCGACCAAACTCTGCTGGTTACCGCACTGGCAAACCTG 1135 P S N L R V L G D Q T L L <u>V T A L A N L</u> GTTTCCAATGCGATTGCCTATTCGCCGCGGGGTCGCTGGTGTCGATCAGCCGTCGCCGT 1195 V S N A I A Y S P R G S L V S I S R R R CGCGGTGCCAACATCGAGATCGCCGTCACCGACCGGGGCATCGCGCCGGCAGGAC 1255 RGANIEIA <u>V T D RGIGIA</u> PED 320 CAGGAGCGGGTCTTCGAACGGTTCTTCCGGGGGGACAAGGCGCGCTCGCGTGCCACCGGA 1315 QER<u>VFERF</u>FRGDKARSRATG 340 GGCAGCGGACTCGGGTTGGCCATCGTCAAACACGTCGCGGCTAATCACGACGGCACCATC 1375 SGLGL AIVKHVAANH DGTI 360 CGCGTGTGGAGCAAACCGGGAACCGGGTCAACGTTCACCTTGGCTCTTCCGGCGTTGATC 1435 RVWSKPGTGSTFTLALPALI GAGGCCTATCACGACGACGAGCGCCGAGCAGCGCGGGGGGCCCGAACTGCGGTCAAAC 1495 EAYHDDERPEQAREPELRSN 400. AGGTCACAACGAGAGGAGGAGGCCGATGACCTGCGCCGACGACGATGCAGAGCGTA 1555 RSQREEELSR 410

GC	SAT(SAG	STG	GGG	GCA	CCA	ccc	GCT	TGC	GGG	GGA	GAG	TGG	CGC	TGA	TGA	CCT	GCG	CCGA	1615
CG	ACG/	ATG (CAG	AGC	GTA	GCG	ATG	AGG	TGG	GGG	CAC	CAC	CCG	CIT	GCG	GGG	GAG	AGT	GGCG	1675
	M Res	T 2X3	s →	V	L	I	V	E	<u>D</u>	E	E	S	L	A	D	P	L	T	GTTT F	1735 19
	GCT L														TCC P		AGC A		CGCC A	1795 39
	GTT(F			GGC A			CGA D			CCT						GCC P		GAT M	GTCG S	1855 59
G G	_					GCA Q											CAT M		GACC T	1915 <i>79</i>
GC A	_			CGA E		CGA D	CAA K				CCT L		GCT L		CGC A			CTA Y		1975 <i>99</i>
AC T				TTC S		ACG R				CGC A						GCT L				2035 119
GG G	CGA(CGA D	CGA D	CTC S	GGA E	GAT M	GAG S	CGP D			GCT L					GGT V	TCG R	CAT M		2095 139
GT V	GGA E				CGT V		GGT V	GAA N	G G	STG# D	CAC T	CAT I		GC1 L		CGC1 L		IGGA E	GTTC F	2155 159
	CCT				CCT L		GCG R			CGC G					TCC R		ACA Q		GATC 1	2215 179

GA	CCC	GGT	CTG	GGG	TGC	GGA	CTA	ICG1	GGG	icg <i>i</i>	NCAC	CAA	IGAC	GCT	'CGA	CGT	CCA	TGT	CAAG	2275
D	R	V	W	G	A	D	Y	V	G	D	T	ĸ	T	L	D	٧	Н	v	K	199
															•					
								_										:GGT	GCGC	2335
R	L	R	S	K	I	Ε	A	D	P	A	N	P	٧	H	L	V	T	٧	R	219
GG		GGG		CAA	ACT					GAC	GCC	GAC	AAC	CTT	GGC	GAC	TGT	CTG	GTCG	2395
G	L	G	Y	K	L	E	G	22	7											
GC	TAC	GGC	CAG	TGC	CAT	CGC	CAT	GAT	GGA	CAG	CTG	CGG	GTT	CAC	TTC	CGG	GCA	GCT	GĞGC	2455
AG	GAT	CGA	GGC	GTC	GGC	AAC	CCA	CAC	GCC	CTC	GAC	GCC	GCG	CAG	CCG	GCC	CGT	'CGC	GTCG	2515
AC	CGG	ACA	AAG	CTG	CTC	GTC	GGC	GCC	GGC	GGC	CGC	GGT	GCC	CGT	CGG	ATG	GAA	GGC	GGCC	2575
3.0	cm/		~~~	* ^*	~~~	~~~	~~~	mcc	~~~	~~~	~ ~ ~	3.00	C.M.C	~	~m~		~ ~ ~			2625
AG	9 I G	CAG	GCI	ICI	افاول	311	GGC	100	666	CAG	CAC	AIC	CIG	CAG	CIC	U U U	CAG	GGA	CCGC	2635
AT	CGG	TGG	GGC	GCC	GGG	GAT	ACC	GGT	CAG	CAC	CTC	CAC	CGC	GCC	GGC	GGC	AAA	.GAA	CAGC	2695
CG	ccc	ד מ מי	ccc	ርጥር	~ N.C.(ccc	CAC	ררכ	ተ ልር	ር ምብ	cec	CDT	ርሞር	a cc	ምሮር	N.C.C	ጥአጥ	CT.	***	2755
	300	·	3 30	C1G(CAG		٥٨٠		170	CII	000	Oni	C1 C	ACC	100	AGC	IAL	GIC	AIAG	2133
CG	CAC	CAC	CGT	CTC	GCC	GCG	CAC	CGA	.CCG	CAC	CGT	GCC	GAC	GCC	CCG	ATC	GGC	CAC	CATC	2815
GC(ccc	GAA	TGT	TGC	GAT	CTG	CGG	CGC	ccc	GTC	GAG	CCA	GCG	GAG	CAG	CTC	יההר	ירכר	GTAG	2875
								-000				••••		00		•••	-		OING	2013
CC	GGG	GAA	GAC	CAT	CGA	CCC	CAT	GCC	CGG	CGG	TGT	GGA	GGT	GGC	CTC	GAT	CAG	CAC	GCCG	2935
TC	GGA	TTC	GTG.	AAA	CTC	STG.	AAC	CGC	CGC	GCT	CTG	CAG	CAC	CCC	GCG	CCA	רפר	CAD:	GACG	2995
																				2,,,,
TC	STC	GTC	GAA	GAG	CCC	GGC	CAG	CAT	AGT	TGC	CGG	GTG	CAG	CGC	AAG	GTT	GTG	GCC	CAGT	3055
CG	CGG	TGC	CCA	CCA	AGA(CCG	CTG	CGC	CGC	AAC	AGC	CCT	GGC	GTC	TCC	GTC	GCA	CCG	GCGG	3115
CG	ACG	ACG	ACC	GCG	rcg	GCC.	AGC	ACG	TCG	AGT	GTG	GTG	CCG	TCG	GGC	CGG	CGG	GCT	CGCA	3175
CG	CCA	TAG	GCC	CGC	CCG	GCG	CGG	TGC	AGG	ATC	C 3	208								



rocecuc oceane

A. BCG

GCT GAG CCG ATG ACC TGC GCC GAC GAC GAT GCA GAG CGT AGC GAT

M T C A D D D A E R S D

CARY 3

GAG GTG GGG GCA CCA CCC GCT TGC GGG GGA GAG TGG CGC TGA TGA E V G A P P A C G G E W R * *

M T

CCT GCG CCG ACG ACG ATG CAG AGC GTA GCG ATG AGG TGG GGG CAC

C A D D D A E R S D E V G A P
CAC CCG CTT GCG GGG GAG AGT GGC GCT GAT GAC CAG TGT

· M T S V → regX3

B. Mycobacterium tuberculosis

GCT GAG CCG ATG ACC TGC GCC GAC GAC GAT GCA GAG CGT AGC GAT

M T C A D D D A E R S D

senX3

L S R *

GAG GTG GGG GCA CCA CCC GCT·TGC GGG GGA GAG TGG CGC TGA TGA E V G A P P A C G G E W R * *

M T

CCT GCG CCG ACG ACG ATG CAG AGC GTA GCG ATG AGG TGG GGG CAC

C A D D D A E R S D E V G A P
CAC CCG CTT GCG GGG GAG AGT GGC GCT GAT GAC CTG CGC CGA CGA

M T C A D I P A C G G E W R * *

CGA TGC AGA GCG TAG CGA TGA GGA GGA GTG GCG CTG ATG ACC AGT

M T S regX3

D A E R S D E E E W R * *

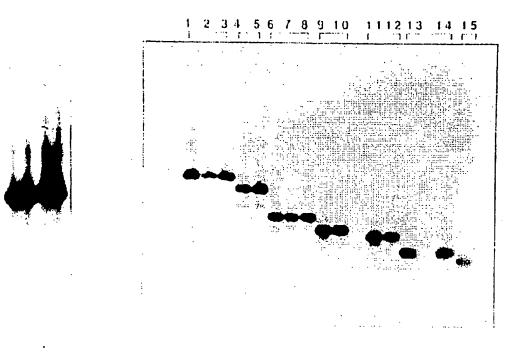


FIG.7

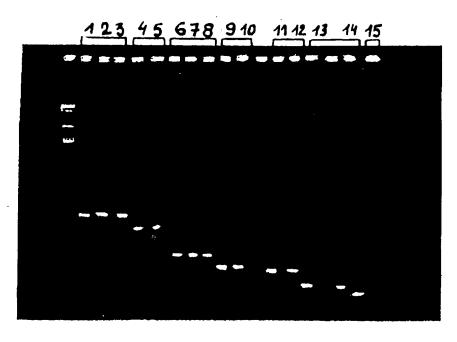


FIG.6